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## SEQUENCE LISTING

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<170> PatentIn version 3.2

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<213> artificial

<220>

<223> Human PYY

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Tyr Pro Ile Lys Pro Glu Ala Pro Gly Glu Asp Ala Ser Pro Glu Glu  
1 5 10 15

Leu Asn Arg Tyr Tyr Ala Ser Leu Arg His Tyr Leu Asn Leu Val Thr  
20 25 30

Arg Gln Arg Tyr  
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<213> artificial

<220>

<223> Rat PYY

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Tyr Pro Ala Lys Pro Glu Ala Pro Gly Glu Asp Ala Ser Pro Glu Glu  
1 5 10 15

Leu Ser Arg Tyr Tyr Ala Ser Leu Arg His Tyr Leu Asn Leu Val Thr  
20 25 30

Arg Gln Arg Tyr  
35

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Ile Lys Pro Glu Ala Pro Gly Glu Asp Ala Ser Pro Glu Glu Leu Asn  
1 5 10 15

Arg Tyr Tyr Ala Ser Leu Arg His Tyr Leu Asn Leu Xaa Thr Arg Gln  
20 25 30

Arg Tyr

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Xaa Ser Leu Arg His Tyr Leu Asn Leu Val Thr Arg Gln Arg Tyr  
1 5 10 15

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<222> (24)..(24)

<223> Xaa is  $\beta$ -(3-pyridinyl)alanine

<400> 5

Ile Lys Pro Glu Ala Pro Gly Glu Asp Ala Ser Pro Glu Glu Leu Asn  
1 5 10 15

Arg Tyr Tyr Ala Ser Leu Arg Xaa Tyr Leu Asn Leu Val Thr Arg Gln  
20 25 30

Arg Tyr

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<222> (24)..(24)

<223> Xaa is  $\beta$ -(4-thiazolyl)alanine

<400> 6

Ile Lys Pro Glu Ala Pro Gly Glu Asp Ala Ser Pro Glu Glu Leu Asn  
1 5 10 15

Arg Tyr Tyr Ala Ser Leu Arg Xaa Tyr Leu Asn Leu Val Thr Arg Gln  
20 25 30

Arg Tyr

<210> 7

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<222> (33)..(33)

<223> Xaa is Apc as defined in the specification

<400> 7

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1 5 10 15

Arg Tyr Tyr Ala Ser Leu Arg His Tyr Leu Asn Leu Val Thr Arg Gln  
20 25 30

Xaa Tyr

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1 5 10 15

Arg Tyr Tyr Ala Ser Leu Arg His Tyr Xaa Asn Leu Val Thr Arg Gln  
20 25 30

Arg Tyr

<210> 9  
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<400> 9

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1 5 10 15

Arg Tyr Tyr Ala Ser Leu Arg His Tyr Leu Asn Xaa Val Thr Arg Gln  
20 25 30

Arg Tyr

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<400> 10

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1 5 10 15

Arg Tyr Tyr Ala Ser Xaa Arg His Tyr Leu Asn Leu Val Thr Arg Gln  
20 25 30

Arg Tyr

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1 5 10 15

Arg Tyr Tyr Xaa Ser Leu Arg His Tyr Leu Asn Leu Val Thr Arg Gln  
20 25 30

Arg Tyr

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<400> 12

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 1 5 10 15

Arg Tyr Tyr Ala Ser Leu Arg His Xaa Leu Asn Leu Val Thr Arg Gln  
 20 25 30

Arg Tyr

<210> 13  
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<400> 13

Ala Ser Leu Arg Xaa Tyr Leu Asn Leu Val Thr Arg Gln Arg Tyr  
 1 5 10 15

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<400> 14

Ala Ser Leu Arg Xaa Tyr Leu Asn Leu Val Thr Arg Gln Arg Tyr  
1 5 10 15

<210> 15  
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<223> Xaa is 3,4,5-trifluorophenylalanine

<400> 15

Ala Ser Leu Arg His Xaa Leu Asn Leu Val Thr Arg Gln Arg Tyr  
1 5 10 15

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<400> 16

Leu Arg Xaa Tyr Leu Asn Leu Leu Thr Arg Gln Arg Tyr  
1 5 10

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<222> (3)..(3)  
<223> Xaa is  $\beta$ -(4-pyridinyl)alanine  
  
<400> 17  
  
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1 5 10  
  
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<223> N-terminal acetylation; C-terminal amidation  
  
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<222> (3)..(3)  
<223> Xaa is  $\beta$ -(2-pyridinyl)alanine  
  
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1 5 10  
  
<210> 19  
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<223> Xaa is  $\beta$ -(4-thiazolyl)alanine  
  
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Leu Arg Xaa Tyr Leu Asn Leu Leu Thr Arg Gln Arg Tyr  
1 5 10  
  
<210> 20  
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Ala Ser Leu Arg Xaa Tyr Leu Asn Leu Val Thr Arg Gln Arg Tyr  
1 5 10 15

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Ala Ser Leu Arg His Tyr Leu Asn Leu Xaa Thr Arg Gln Arg Tyr  
1 5 10 15

<210> 22  
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<400> 22

Ala Ser Leu Arg His Tyr Leu Asn Xaa Val Thr Arg Gln Arg Tyr  
1 5 10 15

<210> 23  
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<400> 23

Ala Ser Leu Arg His Tyr Xaa Asn Leu Val Thr Arg Gln Arg Tyr  
1 5 10 15

<210> 24  
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Ala Ser Leu Arg His Tyr Leu Asn Leu Xaa Thr Arg Gln Arg Tyr  
1 5 10 15

<210> 25  
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<220>  
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<400> 25

Ala Ser Xaa Arg His Tyr Leu Asn Leu Val Thr Arg Gln Arg Tyr  
1 5 10 15

<210> 26  
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<220>  
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<222> (5)..(5)  
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<400> 26

Ala Ser Leu Arg Xaa Tyr Leu Asn Leu Val Thr Arg Gln Arg Tyr  
1 5 10 15

<210> 27  
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Ala Ser Leu Arg Xaa Tyr Leu Asn Leu Val Thr Arg Gln Arg Tyr  
1 5 10 15

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<223> Xaa is 1-amino-1-cyclohexanecarboxylic acid  
  
<400> 28

Xaa Arg His Tyr Leu Asn Leu Leu Thr Arg Gln Arg Tyr  
1 5 10

<210> 29  
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<223> N-terminal acetylation; C-terminal amidation

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<400> 29

Leu Arg His Tyr Xaa Asn Leu Leu Thr Arg Gln Arg Tyr  
 1 5 10

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<400> 30

Leu Arg His Tyr Leu Asn Leu Xaa Thr Arg Gln Arg Tyr  
 1 5 10

<210> 31  
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 <222> (18)..(18)  
 <223> Xaa is 2,3,4,5,6-pentafluorophenylalanine

<400> 31

Ile Lys Pro Glu Ala Pro Gly Glu Asp Ala Ser Pro Glu Glu Leu Asn  
 1 5 10 15

Arg Xaa Tyr Ala Ser Leu Arg His Tyr Leu Asn Leu Val Thr Arg Gln  
 20 25 30

Arg Tyr

<210> 32  
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<223> Xaa is 2,3,4,5,6-pentafluorophenylalanine

<400> 32

Ile Lys Pro Glu Ala Pro Gly Glu Asp Ala Ser Pro Glu Glu Leu Asn  
1 5 10 15

Arg Tyr Xaa Ala Ser Leu Arg His Tyr Leu Asn Leu Val Thr Arg Gln  
20 25 30

Arg Tyr

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<223> Xaa is 2,3,4,5,6-pentafluorophenylalanine

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Ala Ser Leu Arg Xaa Tyr Leu Asn Leu Val Thr Arg Gln Arg Tyr  
1 5 10 15

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<211> 13  
<212> PRT  
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<220>  
<223> N-terminal acetylation; C-terminal amidation

<220>  
<221> MISC\_FEATURE

&lt;222&gt; (3)..(3)

&lt;223&gt; Xaa is 2,3,4,5,6-pentafluorophenylalanine

&lt;400&gt; 34

Leu Arg Xaa Tyr Leu Asn Leu Val Thr Arg Gln Arg Tyr  
 1 5 10

&lt;210&gt; 35

&lt;211&gt; 34

&lt;212&gt; PRT

&lt;213&gt; artificial

&lt;220&gt;

&lt;223&gt; C-terminal amidation

&lt;220&gt;

&lt;221&gt; MISC\_FEATURE

&lt;222&gt; (24)..(24)

&lt;223&gt; Xaa is 2,3,4,5,6-pentafluorophenylalanine

&lt;400&gt; 35

Ile Lys Pro Glu Ala Pro Gly Glu Asp Ala Ser Pro Glu Glu Leu Asn  
 1 5 10 15

Arg Tyr Tyr Ala Ser Leu Arg Xaa Tyr Leu Asn Leu Val Thr Arg Gln  
 20 25 30

Arg Tyr

&lt;210&gt; 36

&lt;211&gt; 15

&lt;212&gt; PRT

&lt;213&gt; artificial

&lt;220&gt;

&lt;223&gt; N-terminal acetylation; C-terminal amidation

&lt;220&gt;

&lt;221&gt; MISC\_FEATURE

&lt;222&gt; (6)..(6)

&lt;223&gt; Xaa is 2,3,4,5,6-pentafluorophenylalanine

&lt;400&gt; 36

Ala Ser Leu Arg His Xaa Leu Asn Leu Val Thr Arg Gln Arg Tyr  
 1 5 10 15

&lt;210&gt; 37

&lt;211&gt; 13

&lt;212&gt; PRT

<213> artificial

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<223> N-terminal acetylation; C-terminal amidation

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<221> MISC\_FEATURE

<222> (4)..(4)

<223> Xaa is 2,3,4,5,6-pentafluorophenylalanine

<400> 37

Leu Arg His Xaa Leu Asn Leu Val Thr Arg Gln Arg Tyr  
1 5 10

<210> 38

<211> 34

<212> PRT

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<220>

<223> C-terminal amidation

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<221> MISC\_FEATURE

<222> (25)..(25)

<223> Xaa is 2,3,4,5,6-pentafluorophenylalanine

<400> 38

Ile Lys Pro Glu Ala Pro Gly Glu Asp Ala Ser Pro Glu Glu Leu Asn  
1 5 10 15

Arg Tyr Tyr Ala Ser Leu Arg His Xaa Leu Asn Leu Val Thr Arg Gln  
20 25 30

Arg Tyr

<210> 39

<211> 15

<212> PRT

<213> artificial

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<223> N-terminal acetylation; C-terminal amidation

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<221> MISC\_FEATURE

<222> (15)..(15)

<223> Xaa is 2,3,4,5,6-pentafluorophenylalanine

<400> 39

Ala Ser Leu Arg His Tyr Leu Asn Leu Val Thr Arg Gln Arg Xaa  
 1 5 10 15

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<400> 40

Leu Arg His Tyr Leu Asn Leu Val Thr Arg Gln Arg Xaa  
 1 5 10

<210> 41  
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<400> 41

Ile Lys Pro Glu Ala Pro Gly Glu Asp Ala Ser Pro Glu Glu Leu Asn  
 1 5 10 15

Arg Tyr Tyr Ala Ser Leu Arg His Tyr Leu Asn Leu Val Thr Arg Gln  
 20 25 30

Arg Xaa

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<222> (18)..(18)  
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Ile Lys Pro Glu Ala Pro Gly Glu Asp Ala Ser Pro Glu Glu Leu Asn  
1 5 10 15

Arg Xaa Tyr Ala Ser Leu Arg His Tyr Leu Asn Leu Val Thr Arg Gln  
20 25 30

Arg Tyr

<210> 43  
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<220>  
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<223> Xaa is 3,4,5-trifluorophenylalanine

<400> 43

Ile Lys Pro Glu Ala Pro Gly Glu Asp Ala Ser Pro Glu Glu Leu Asn  
1 5 10 15

Arg Tyr Xaa Ala Ser Leu Arg His Tyr Leu Asn Leu Val Thr Arg Gln  
20 25 30

Arg Tyr

<210> 44  
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<222> (5)..(5)  
<223> Xaa is 3,4,5-trifluorophenylalanine

<400> 44

Ala Ser Leu Arg Xaa Tyr Leu Asn Leu Val Thr Arg Gln Arg Tyr  
1 5 10 15

<210> 45  
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<400> 45

Leu Arg Xaa Tyr Leu Asn Leu Val Thr Arg Gln Arg Tyr  
1 5 10

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<220>  
<223> C-terminal amidation

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<222> (24)..(24)  
<223> Xaa is 3,4,5-trifluorophenylalanine

<400> 46

Ile Lys Pro Glu Ala Pro Gly Glu Asp Ala Ser Pro Glu Glu Leu Asn  
1 5 10 15

Arg Tyr Tyr Ala Ser Leu Arg Xaa Tyr Leu Asn Leu Val Thr Arg Gln  
20 25 30

Arg Tyr

<210> 47  
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<213> artificial

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<223> N-terminal acetylation; C-terminal amidation

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<221> MISC\_FEATURE

<222> (4)..(4)

<223> Xaa is 3,4,5-trifluorophenylalanine

<400> 47

Leu Arg His Xaa Leu Asn Leu Val Thr Arg Gln Arg Tyr  
1 5 10

<210> 48

<211> 15

<212> PRT

<213> artificial

<220>

<223> N-terminal acetylation; C-terminal amidation

<220>

<221> MISC\_FEATURE

<222> (15)..(15)

<223> Xaa is 3,4,5-trifluorophenylalanine

<400> 48

Ala Ser Leu Arg His Tyr Leu Asn Leu Val Thr Arg Gln Arg Xaa  
1 5 10 15

<210> 49

<211> 13

<212> PRT

<213> artificial

<220>

<223> N-terminal acetylation; C-terminal amidation

<220>

<221> MISC\_FEATURE

<222> (13)..(13)

<223> Xaa is 3,4,5-trifluorophenylalanine

<400> 49

Leu Arg His Tyr Leu Asn Leu Val Thr Arg Gln Arg Xaa  
1 5 10

<210> 50

<211> 34

<212> PRT

<213> artificial

<220>

<223> C-terminal amidation

<220>

<221> MISC\_FEATURE

<222> (34)..(34)

<223> Xaa is 3,4,5-trifluorophenylalanine

<400> 50

Ile Lys Pro Glu Ala Pro Gly Glu Asp Ala Ser Pro Glu Glu Leu Asn  
1 5 10 15

Arg Tyr Tyr Ala Ser Leu Arg His Tyr Leu Asn Leu Val Thr Arg Gln  
20 25 30

Arg Xaa

<210> 51

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<223> N-terminal acetylation; C-terminal amidation

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<221> MISC\_FEATURE

<222> (8)..(8)

<223> Xaa is 1-amino-1-cyclopentanecarboxylic acid

<400> 51

Leu Arg His Tyr Leu Asn Leu Xaa Thr Arg Gln Arg Tyr  
1 5 10

<210> 52

<211> 34

<212> PRT

<213> artificial

<220>

<223> C-terminal amidation

<220>

<221> MISC\_FEATURE

<222> (8)..(8)

<223> Xaa is 1-amino-1-cyclohexanecarboxylic acid

<400> 52

Ile Lys Pro Glu Ala Pro Gly Xaa Asp Ala Ser Pro Glu Glu Leu Asn  
1 5 10 15

Arg Tyr Tyr Ala Ser Leu Arg His Tyr Leu Asn Leu Val Thr Arg Gln  
20 25 30

Arg Tyr

<210> 53  
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<222> (9)..(9)  
<223> Xaa is 1-amino-1-cyclohexanecarboxylic acid

<400> 53

Ile Lys Pro Glu Ala Pro Gly Glu Xaa Ala Ser Pro Glu Glu Leu Asn  
1 5 10 15

Arg Tyr Tyr Ala Ser Leu Arg His Tyr Leu Asn Leu Val Thr Arg Gln  
20 25 30

Arg Tyr

<210> 54  
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<222> (10)..(10)  
<223> Xaa is 1-amino-1-cyclohexanecarboxylic acid

<400> 54

Ile Lys Pro Glu Ala Pro Gly Glu Asp Xaa Ser Pro Glu Glu Leu Asn  
1 5 10 15

Arg Tyr Tyr Ala Ser Leu Arg His Tyr Leu Asn Leu Val Thr Arg Gln  
                   20                                  25                                  30

Arg Tyr

<210> 55  
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 <222> (11)..(11)  
 <223> Xaa is 1-amino-1-cyclohexanecarboxylic acid

<400> 55

Ile Lys Pro Glu Ala Pro Gly Glu Asp Ala Xaa Pro Glu Glu Leu Asn  
 1                  5                                  10                                  15

Arg Tyr Tyr Ala Ser Leu Arg His Tyr Leu Asn Leu Val Thr Arg Gln  
                   20                                  25                                  30

Arg Tyr

<210> 56  
 <211> 34  
 <212> PRT  
 <213> artificial

<220>  
 <223> C-terminal amidation

<220>  
 <221> MISC\_FEATURE  
 <222> (13)..(13)  
 <223> Xaa is 1-amino-1-cyclohexanecarboxylic acid

<400> 56

Ile Lys Pro Glu Ala Pro Gly Glu Asp Ala Ser Pro Xaa Glu Leu Asn  
 1                  5                                  10                                  15

Arg Tyr Tyr Ala Ser Leu Arg His Tyr Leu Asn Leu Val Thr Arg Gln  
                   20                                  25                                  30

Arg Tyr

<210> 57  
<211> 34  
<212> PRT  
<213> artificial

<220>  
<223> C-terminal amidation

<220>  
<221> MISC\_FEATURE  
<222> (14)..(14)  
<223> Xaa is 1-amino-1-cyclohexanecarboxylic acid

&lt;400&gt; 57

Ile Lys Pro Glu Ala Pro Gly Glu Asp Ala Ser Pro Glu Xaa Leu Asn  
1 5 10 15

Arg Tyr Tyr Ala Ser Leu Arg His Tyr Leu Asn Leu Val Thr Arg Gln  
20 25 30

Arg Tyr

<210> 58  
<211> 34  
<212> PRT  
<213> artificial

<220>  
<223> C-terminal amidation

<220>  
<221> MISC\_FEATURE  
<222> (15)..(15)  
<223> Xaa is 1-amino-1-cyclohexanecarboxylic acid

&lt;400&gt; 58

Ile Lys Pro Glu Ala Pro Gly Glu Asp Ala Ser Pro Glu Glu Xaa Asn  
1 5 10 15

Arg Tyr Tyr Ala Ser Leu Arg His Tyr Leu Asn Leu Val Thr Arg Gln  
20 25 30

Arg Tyr

<210> 59  
<211> 34  
<212> PRT  
<213> artificial

<220>  
<223> C-terminal amidation

<220>  
<221> MISC\_FEATURE  
<222> (16)..(16)  
<223> Xaa is 1-amino-1-cyclohexanecarboxylic acid

<400> 59

Ile Lys Pro Glu Ala Pro Gly Glu Asp Ala Ser Pro Glu Glu Leu Xaa  
1 5 10 15

Arg Tyr Tyr Ala Ser Leu Arg His Tyr Leu Asn Leu Val Thr Arg Gln  
20 25 30

Arg Tyr

<210> 60  
<211> 34  
<212> PRT  
<213> artificial

<220>  
<223> C-terminal amidation

<220>  
<221> MISC\_FEATURE  
<222> (18)..(18)  
<223> Xaa is 1-amino-1-cyclohexanecarboxylic acid

<400> 60

Ile Lys Pro Glu Ala Pro Gly Glu Asp Ala Ser Pro Glu Glu Leu Asn  
1 5 10 15

Arg Xaa Tyr Ala Ser Leu Arg His Tyr Leu Asn Leu Val Thr Arg Gln  
20 25 30

Arg Tyr

<210> 61  
<211> 34  
<212> PRT



<213> artificial

<220>

<223> C-terminal amidation

<220>

<221> MISC\_FEATURE

<222> (19)..(19)

<223> Xaa is 1-amino-1-cyclohexanecarboxylic acid

<400> 61

Ile Lys Pro Glu Ala Pro Gly Glu Asp Ala Ser Pro Glu Glu Leu Asn  
1 5 10 15

Arg Tyr Xaa Ala Ser Leu Arg His Tyr Leu Asn Leu Val Thr Arg Gln  
20 25 30

Arg Tyr

<210> 62

<211> 15

<212> PRT

<213> artificial

<220>

<223> N-terminal acetylation; C-terminal amidation

<220>

<221> MISC\_FEATURE

<222> (1)..(1)

<223> Xaa is 1-amino-1-cyclohexanecarboxylic acid

<400> 62

Xaa Ser Leu Arg His Tyr Leu Asn Leu Val Thr Arg Gln Arg Tyr  
1 5 10 15

<210> 63

<211> 34

<212> PRT

<213> artificial

<220>

<223> C-terminal amidation

<220>

<221> MISC\_FEATURE

<222> (20)..(20)

<223> Xaa is 1-amino-1-cyclohexanecarboxylic acid

<400> 63

Ile Lys Pro Glu Ala Pro Gly Glu Asp Ala Ser Pro Glu Glu Leu Asn  
1 5 10 15

Arg Tyr Tyr Xaa Ser Leu Arg His Tyr Leu Asn Leu Val Thr Arg Gln  
20 25 30

Arg Tyr

<210> 64  
<211> 13  
<212> PRT  
<213> artificial

<220>  
<223> N-terminal acetylation; C-terminal amidation

<220>  
<221> MISC\_FEATURE  
<222> (1)..(1)  
<223> Xaa is 1-amino-1-cyclohexanecarboxylic acid

<400> 64

Xaa Arg His Tyr Leu Asn Leu Val Thr Arg Gln Arg Tyr  
1 5 10

<210> 65  
<211> 15  
<212> PRT  
<213> artificial

<220>  
<223> N-terminal acetylation; C-terminal amidation

<220>  
<221> MISC\_FEATURE  
<222> (6)..(6)  
<223> Xaa is 1-amino-1-cyclohexanecarboxylic acid

<400> 65

Ala Ser Leu Arg His Xaa Leu Asn Leu Val Thr Arg Gln Arg Tyr  
1 5 10 15

<210> 66  
<211> 13  
<212> PRT  
<213> artificial

<220>  
<223> N-terminal acetylation; C-terminal amidation

<220>  
 <221> MISC\_FEATURE  
 <222> (4)..(4)  
 <223> Xaa is 1-amino-1-cyclohexanecarboxylic acid  
 <400> 66

Leu Arg His Xaa Leu Asn Leu Val Thr Arg Gln Arg Tyr  
 1 5 10

<210> 67  
 <211> 34  
 <212> PRT  
 <213> artificial

<220>  
 <223> C-terminal amidation

<220>  
 <221> MISC\_FEATURE  
 <222> (25)..(25)  
 <223> Xaa is 1-amino-1-cyclohexanecarboxylic acid  
 <400> 67

Ile Lys Pro Glu Ala Pro Gly Glu Asp Ala Ser Pro Glu Glu Leu Asn  
 1 5 10 15

Arg Tyr Tyr Ala Ser Leu Arg His Xaa Leu Asn Leu Val Thr Arg Gln  
 20 25 30

Arg Tyr

<210> 68  
 <211> 13  
 <212> PRT  
 <213> artificial

<220>  
 <223> N-terminal acetylation; C-terminal amidation

<220>  
 <221> MISC\_FEATURE  
 <222> (5)..(5)  
 <223> Xaa is 1-amino-1-cyclohexanecarboxylic acid  
 <400> 68

Leu Arg His Tyr Xaa Asn Leu Val Thr Arg Gln Arg Tyr  
 1 5 10

<210> 69  
<211> 15  
<212> PRT  
<213> artificial

<220>  
<223> N-terminal acetylation; C-terminal amidation

<220>  
<221> MISC\_FEATURE  
<222> (8)..(8)  
<223> Xaa is 1-amino-1-cyclohexanecarboxylic acid

<400> 69

Ala Ser Leu Arg His Tyr Leu Xaa Leu Val Thr Arg Gln Arg Tyr  
1 5 10 15

<210> 70  
<211> 13  
<212> PRT  
<213> artificial

<220>  
<223> N-terminal acetylation; C-terminal amidation

<220>  
<221> MISC\_FEATURE  
<222> (6)..(6)  
<223> Xaa is 1-amino-1-cyclohexanecarboxylic acid

<400> 70

Leu Arg His Tyr Leu Xaa Leu Val Thr Arg Gln Arg Tyr  
1 5 10

<210> 71  
<211> 34  
<212> PRT  
<213> artificial

<220>  
<223> C-terminal amidation

<220>  
<221> MISC\_FEATURE  
<222> (27)..(27)  
<223> Xaa is 1-amino-1-cyclohexanecarboxylic acid

<400> 71

Ile Lys Pro Glu Ala Pro Gly Glu Asp Ala Ser Pro Glu Glu Leu Asn  
1 5 10 15

Arg Tyr Tyr Ala Ser Leu Arg His Tyr Leu Xaa Leu Val Thr Arg Gln  
                   20                  25                  30

Arg Tyr

<210> 72  
 <211> 34  
 <212> PRT  
 <213> artificial

<220>  
 <223> C-terminal amidation

<220>  
 <221> MISC\_FEATURE  
 <222> (1)..(1)  
 <223> Xaa is 1-amino-1-cyclohexanecarboxylic acid

<400> 72

Xaa Lys Pro Glu Ala Pro Gly Glu Asp Ala Ser Pro Glu Glu Leu Asn  
   1                  5                  10                  15

Arg Tyr Tyr Ala Ser Leu Arg His Tyr Leu Asn Leu Val Thr Arg Gln  
                   20                  25                  30

Arg Tyr

<210> 73  
 <211> 13  
 <212> PRT  
 <213> artificial

<220>  
 <223> N-terminal acetylation; C-terminal amidation

<220>  
 <221> MISC\_FEATURE  
 <222> (7)..(7)  
 <223> Xaa is 1-amino-1-cyclohexanecarboxylic acid

<400> 73

Leu Arg His Tyr Leu Asn Xaa Val Thr Arg Gln Arg Tyr  
   1                  5                  10

<210> 74  
 <211> 34  
 <212> PRT

<213> artificial

<220>

<223> C-terminal amidation

<220>

<221> MISC\_FEATURE

<222> (29)..(29)

<223> Xaa is 1-amino-1-cyclohexanecarboxylic acid

<400> 74

Ile Lys Pro Glu Ala Pro Gly Glu Asp Ala Ser Pro Glu Glu Leu Asn  
1 5 10 15

Arg Tyr Tyr Ala Ser Leu Arg His Tyr Leu Asn Leu Xaa Thr Arg Gln  
20 25 30

Arg Tyr

<210> 75

<211> 15

<212> PRT

<213> artificial

<220>

<223> N-terminal acetylation; C-terminal amidation

<220>

<221> MISC\_FEATURE

<222> (11)..(11)

<223> Xaa is 1-amino-1-cyclohexanecarboxylic acid

<400> 75

Ala Ser Leu Arg His Tyr Leu Asn Leu Val Xaa Arg Gln Arg Tyr  
1 5 10 15

<210> 76

<211> 13

<212> PRT

<213> artificial

<220>

<223> N-terminal acetylation; C-terminal amidation

<220>

<221> MISC\_FEATURE

<222> (9)..(9)

<223> Xaa is 1-amino-1-cyclohexanecarboxylic acid

<400> 76

Leu Arg His Tyr Leu Asn Leu Val Xaa Arg Gln Arg Tyr  
 1 5 10

<210> 77  
 <211> 34  
 <212> PRT  
 <213> artificial

<220>  
 <223> C-terminal amidation

<220>  
 <221> MISC\_FEATURE  
 <222> (30)..(30)  
 <223> Xaa is 1-amino-1-cyclohexanecarboxylic acid

<400> 77

Ile Lys Pro Glu Ala Pro Gly Glu Asp Ala Ser Pro Glu Glu Leu Asn  
 1 5 10 15

Arg Tyr Tyr Ala Ser Leu Arg His Tyr Leu Asn Leu Val Xaa Arg Gln  
 20 25 30

Arg Tyr

<210> 78  
 <211> 34  
 <212> PRT  
 <213> artificial

<220>  
 <223> C-terminal amidation

<220>  
 <221> MISC\_FEATURE  
 <222> (4)..(4)  
 <223> Xaa is 1-amino-1-cyclohexanecarboxylic acid

<400> 78

Ile Lys Pro Xaa Ala Pro Gly Glu Asp Ala Ser Pro Glu Glu Leu Asn  
 1 5 10 15

Arg Tyr Tyr Ala Ser Leu Arg His Tyr Leu Asn Leu Val Thr Arg Gln  
 20 25 30

Arg Tyr

<210> 79  
<211> 34  
<212> PRT  
<213> artificial

<220>  
<223> C-terminal amidation

<220>  
<221> MISC\_FEATURE  
<222> (5)..(5)  
<223> Xaa is 1-amino-1-cyclohexanecarboxylic acid

<400> 79

Ile Lys Pro Glu Xaa Pro Gly Glu Asp Ala Ser Pro Glu Glu Leu Asn  
1 5 10 15

Arg Tyr Tyr Ala Ser Leu Arg His Tyr Leu Asn Leu Val Thr Arg Gln  
20 25 30

Arg Tyr

<210> 80  
<211> 34  
<212> PRT  
<213> artificial

<220>  
<223> C-terminal amidation

<220>  
<221> MISC\_FEATURE  
<222> (7)..(7)  
<223> Xaa is 1-amino-1-cyclohexanecarboxylic acid

<400> 80

Ile Lys Pro Glu Ala Pro Xaa Glu Asp Ala Ser Pro Glu Glu Leu Asn  
1 5 10 15

Arg Tyr Tyr Ala Ser Leu Arg His Tyr Leu Asn Leu Val Thr Arg Gln  
20 25 30

Arg Tyr

<210> 81  
<211> 34  
<212> PRT



<213> artificial

<220>

<223> C-terminal amidation

<220>

<221> MISC\_FEATURE

<222> (10)..(10)

<223> Xaa is 4-amino-4-carboxytetrahydropyran

<400> 81

Ile Lys Pro Glu Ala Pro Gly Glu Asp Xaa Ser Pro Glu Glu Leu Asn  
1 . 5 10 15

Arg Tyr Tyr Ala Ser Leu Arg His Tyr Leu Asn Leu Val Thr Arg Gln  
20 25 30

Arg Tyr

<210> 82

<211> 34

<212> PRT

<213> artificial

<220>

<223> C-terminal amidation

<220>

<221> MISC\_FEATURE

<222> (11)..(11)

<223> Xaa is 4-amino-4-carboxytetrahydropyran

<400> 82

Ile Lys Pro Glu Ala Pro Gly Glu Asp Ala Xaa Pro Glu Glu Leu Asn  
1 5 10 15

Arg Tyr Tyr Ala Ser Leu Arg His Tyr Leu Asn Leu Val Thr Arg Gln  
20 25 30

Arg Tyr

<210> 83

<211> 15

<212> PRT

<213> artificial

<220>

<223> N-terminal acetylation; C-terminal amidation

<220>  
 <221> MISC\_FEATURE  
 <222> (2)..(2)  
 <223> Xaa is 4-amino-4-carboxytetrahydropyran  
 <400> 83

Ala Xaa Leu Arg His Tyr Leu Asn Leu Val Thr Arg Gln Arg Tyr  
 1 5 10 15

<210> 84  
 <211> 34  
 <212> PRT  
 <213> artificial

<220>  
 <223> C-terminal amidation

<220>  
 <221> MISC\_FEATURE  
 <222> (21)..(21)  
 <223> Xaa is 4-amino-4-carboxytetrahydropyran  
 <400> 84

Ile Lys Pro Glu Ala Pro Gly Glu Asp Ala Ser Pro Glu Glu Leu Asn  
 1 5 10 15

Arg Tyr Tyr Ala Xaa Leu Arg His Tyr Leu Asn Leu Val Thr Arg Gln  
 20 25 30

Arg Tyr

<210> 85  
 <211> 15  
 <212> PRT  
 <213> artificial

<220>  
 <223> N-terminal acetylation; C-terminal amidation

<220>  
 <221> MISC\_FEATURE  
 <222> (11)..(11)  
 <223> Xaa is 4-amino-4-carboxytetrahydropyran  
 <400> 85

Ala Ser Leu Arg His Tyr Leu Asn Leu Val Xaa Arg Gln Arg Tyr  
 1 5 10 15

<210> 86  
<211> 13  
<212> PRT  
<213> artificial

<220>  
<223> N-terminal acetylation; C-terminal amidation

<220>  
<221> MISC\_FEATURE  
<222> (9)..(9)  
<223> Xaa is 4-amino-4-carboxytetrahydropyran  
<400> 86

Leu Arg His Tyr Leu Asn Leu Val Xaa Arg Gln Arg Tyr  
1 5 10

<210> 87  
<211> 34  
<212> PRT  
<213> artificial

<220>  
<223> C-terminal amidation

<220>  
<221> MISC\_FEATURE  
<222> (30)..(30)  
<223> Xaa is 4-amino-4-carboxytetrahydropyran

<400> 87

Ile Lys Pro Glu Ala Pro Gly Glu Asp Ala Ser Pro Glu Glu Leu Asn  
1 5 10 15

Arg Tyr Tyr Ala Ser Leu Arg His Tyr Leu Asn Leu Val Xaa Arg Gln  
20 25 30

Arg Tyr

<210> 88  
<211> 34  
<212> PRT  
<213> artificial

<220>  
<223> C-terminal amidation

<220>  
<221> MISC\_FEATURE

<222> (5)..(5)

<223> Xaa is 4-amino-4-carboxytetrahydropyran

<400> 88

Ile Lys Pro Glu Xaa Pro Gly Glu Asp Ala Ser Pro Glu Glu Leu Asn  
1 5 10 15

Arg Tyr Tyr Ala Ser Leu Arg His Tyr Leu Asn Leu Val Thr Arg Gln  
20 25 30

Arg Tyr

<210> 89

<211> 15

<212> PRT

<213> artificial

<220>

<223> N-terminal acetylation; C-terminal amidation

<220>

<221> MISC\_FEATURE

<222> (1)..(1)

<223> Xaa is alpha-aminoisobutyric acid

<400> 89

Xaa Ser Leu Arg His Tyr Leu Asn Leu Val Thr Arg Gln Arg Tyr  
1 5 10 15

<210> 90

<211> 34

<212> PRT

<213> artificial

<220>

<223> C-terminal amidation

<220>

<221> MISC\_FEATURE

<222> (17)..(17)

<223> Xaa is Apc as defined in the specification

<400> 90

Ile Lys Pro Glu Ala Pro Gly Glu Asp Ala Ser Pro Glu Glu Leu Asn  
1 5 10 15

Xaa Tyr Tyr Ala Ser Leu Arg His Tyr Leu Asn Leu Val Thr Arg Gln  
20 25 30

Arg Tyr

<210> 91  
<211> 15  
<212> PRT  
<213> artificial

<220>  
<223> N-terminal acetylation; C-terminal amidation

<220>  
<221> MISC\_FEATURE  
<222> (4)..(4)  
<223> Xaa is Apc as defined in the specification

<400> 91

Ala	Ser	Leu	Xaa	His	Tyr	Leu	Asn	Leu	Val	Thr	Arg	Gln	Arg	Tyr
1				5				10					15	

<210> 92  
<211> 13  
<212> PRT  
<213> artificial

<220>  
<223> N-terminal acetylation; C-terminal amidation

<220>  
<221> MISC\_FEATURE  
<222> (2)..(2)  
<223> Xaa is Apc as defined in the specification

<400> 92

Leu	Xaa	His	Tyr	Leu	Asn	Leu	Val	Thr	Arg	Gln	Arg	Tyr
1				5				10				

<210> 93  
<211> 34  
<212> PRT  
<213> artificial

<220>  
<223> C-terminal amidation

<220>  
<221> MISC\_FEATURE  
<222> (23)..(23)  
<223> Xaa is Apc as defined in the specification

<400> 93

Ile Lys Pro Glu Ala Pro Gly Glu Asp Ala Ser Pro Glu Glu Leu Asn  
1 5 10 15

Arg Tyr Tyr Ala Ser Leu Xaa His Tyr Leu Asn Leu Val Thr Arg Gln  
20 25 30

Arg Tyr

<210> 94  
<211> 15  
<212> PRT  
<213> artificial

<220>  
<223> N-terminal acetylation; C-terminal amidation

<220>  
<221> MISC\_FEATURE  
<222> (5)..(5)  
<223> Xaa is Apc as defined in the specification

<400> 94

Ala Ser Leu Arg Xaa Tyr Leu Asn Leu Val Thr Arg Gln Arg Tyr  
1 5 10 15

<210> 95  
<211> 13  
<212> PRT  
<213> artificial

<220>  
<223> N-terminal acetylation; C-terminal amidation

<220>  
<221> MISC\_FEATURE  
<222> (3)..(3)  
<223> Xaa is Apc as defined in the specification

<400> 95

Leu Arg Xaa Tyr Leu Asn Leu Val Thr Arg Gln Arg Tyr  
1 5 10

<210> 96  
<211> 34  
<212> PRT  
<213> artificial

<220>  
<223> C-terminal amidation

<220>  
 <221> MISC\_FEATURE  
 <222> (24)..(24)  
 <223> Xaa is Apc as defined in the specification  
 <400> 96

Ile Lys Pro Glu Ala Pro Gly Glu Asp Ala Ser Pro Glu Glu Leu Asn  
 1 5 10 15

Arg Tyr Tyr Ala Ser Leu Arg Xaa Tyr Leu Asn Leu Val Thr Arg Gln  
 20 25 30

Arg Tyr

<210> 97  
 <211> 15  
 <212> PRT  
 <213> artificial

<220>  
 <223> N-terminal acetylation; C-terminal amidation

<220>  
 <221> MISC\_FEATURE  
 <222> (12)..(12)  
 <223> Xaa is Apc as defined in the specification

<400> 97

Ala Ser Leu Arg His Tyr Leu Asn Leu Val Thr Xaa Gln Arg Tyr  
 1 5 10 15

<210> 98  
 <211> 13  
 <212> PRT  
 <213> artificial

<220>  
 <223> N-terminal acetylation; C-terminal amidation

<220>  
 <221> MISC\_FEATURE  
 <222> (10)..(10)  
 <223> Xaa is Apc as defined in the specification

<400> 98

Leu Arg His Tyr Leu Asn Leu Val Thr Xaa Gln Arg Tyr  
 1 5 10

<210> 99  
<211> 34  
<212> PRT  
<213> artificial

<220>  
<223> C-terminal amidation

<220>  
<221> MISC\_FEATURE  
<222> (31)..(31)  
<223> Xaa is Apc as defined in the specification

<400> 99

Ile Lys Pro Glu Ala Pro Gly Glu Asp Ala Ser Pro Glu Glu Leu Asn  
1 5 10 15

Arg Tyr Tyr Ala Ser Leu Arg His Tyr Leu Asn Leu Val Thr Xaa Gln  
20 25 30

Arg Tyr

<210> 100  
<211> 15  
<212> PRT  
<213> artificial

<220>  
<223> N-terminal acetylation; C-terminal amidation

<220>  
<221> MISC\_FEATURE  
<222> (13)..(13)  
<223> Xaa is Apc as defined in the specification

<400> 100

Ala Ser Leu Arg His Tyr Leu Asn Leu Val Thr Arg Xaa Arg Tyr  
1 5 10 15

<210> 101  
<211> 13  
<212> PRT  
<213> artificial

<220>  
<223> N-terminal acetylation; C-terminal amidation

<220>  
<221> MISC\_FEATURE



<222> (11)..(11)

<223> Xaa is Apc as defined in the specification

<400> 101

Leu Arg His Tyr Leu Asn Leu Val Thr Arg Xaa Arg Tyr  
1 5 10

<210> 102

<211> 34

<212> PRT

<213> artificial

<220>

<223> C-terminal amidation

<220>

<221> MISC\_FEATURE

<222> (32)..(32)

<223> Xaa is Apc as defined in the specification

<400> 102

Ile Lys Pro Glu Ala Pro Gly Glu Asp Ala Ser Pro Glu Glu Leu Asn  
1 5 10 15

Arg Tyr Tyr Ala Ser Leu Arg His Tyr Leu Asn Leu Val Thr Arg Xaa  
20 25 30

Arg Tyr

<210> 103

<211> 15

<212> PRT

<213> artificial

<220>

<223> N-terminal acetylation; C-terminal amidation

<220>

<221> MISC\_FEATURE

<222> (14)..(14)

<223> Xaa is Apc as defined in the specification

<400> 103

Ala Ser Leu Arg His Tyr Leu Asn Leu Val Thr Arg Gln Xaa Tyr  
1 5 10 15

<210> 104

<211> 13

<212> PRT

<213> artificial

<220>

<223> N-terminal acetylation; C-terminal amidation

<220>

<221> MISC\_FEATURE

<222> (12)..(12)

<223> Xaa is Apc as defined in the specification

<400> 104

Leu Arg His Tyr Leu Asn Leu Val Thr Arg Gln Xaa Tyr  
1 5 10

<210> 105

<211> 15

<212> PRT

<213> artificial

<220>

<223> N-terminal acetylation; C-terminal amidation

<220>

<221> MISC\_FEATURE

<222> (15)..(15)

<223> Xaa is Apc as defined in the specification

<400> 105

Ala Ser Leu Arg His Tyr Leu Asn Leu Val Thr Arg Gln Arg Xaa  
1 5 10 15

<210> 106

<211> 13

<212> PRT

<213> artificial

<220>

<223> N-terminal acetylation; C-terminal amidation

<220>

<221> MISC\_FEATURE

<222> (13)..(13)

<223> Xaa is Apc as defined in the specification

<400> 106

Leu Arg His Tyr Leu Asn Leu Val Thr Arg Gln Arg Xaa  
1 5 10

<210> 107

<211> 34

<212> PRT

<213> artificial

<220>

<223> C-terminal amidation

<220>

<221> MISC\_FEATURE

<222> (34)..(34)

<223> Xaa is Apc as defined in the specification

<400> 107

Ile Lys Pro Glu Ala Pro Gly Glu Asp Ala Ser Pro Glu Glu Leu Asn  
1 5 10 15

Arg Tyr Tyr Ala Ser Leu Arg His Tyr Leu Asn Leu Val Thr Arg Gln  
20 25 30

Arg Xaa

<210> 108

<211> 34

<212> PRT

<213> artificial

<220>

<223> C-terminal amidation

<220>

<221> MISC\_FEATURE

<222> (2)..(2)

<223> Xaa is Apc as defined in the specification

<400> 108

Ile Xaa Pro Glu Ala Pro Gly Glu Asp Ala Ser Pro Glu Glu Leu Asn  
1 5 10 15

Arg Tyr Tyr Ala Ser Leu Arg His Tyr Leu Asn Leu Val Thr Arg Gln  
20 25 30

Arg Tyr